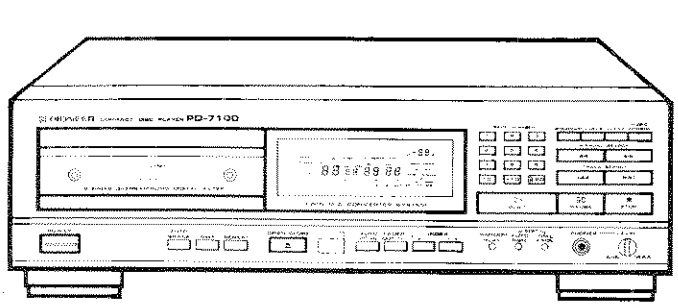
PIONEER
The future of sound and vision.

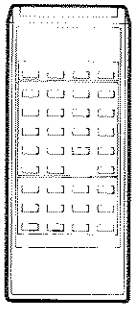
PD-7100

Operating Instructions
Mode d'emploi

COMPACT DISC PLAYER
PLATINE DISQUE AUDIO NUMÉRIQUE

COMPACT disc DIGITAL AUDIO





English

Français

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT NOTICE
[For U.S. and Canadian models]

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

[For Canadian model]

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

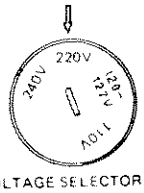
ATTENTION: POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

LINE VOLTAGE SELECTOR SWITCH

Only multi-voltage models are provided with this switch. U.S., Canadian, European, U.K., and Australian models are not provided with this switch. Mains voltages in Saudi Arabia are 127V and 220V only. Never use this model with 110V setting in Saudi Arabia.

The line voltage selector switch is located on the rear panel of this player. Before your player is shipped from the factory, the switch is set to the power requirements of the player's destination. Check that it is set properly before plugging the power cord into the outlet. If the voltage is not properly set or if you move to an area where the voltage requirements differ, adjust the selector switch as follows:

- Use a medium-sized (flat-blade) screwdriver. Insert the tip of the screwdriver into the groove of the selector switch and turn it so that the power voltage marking of your area points to the arrow.



VOLTAGE SELECTOR

IMPORTANT 1

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

SAFETY INSTRUCTIONS

READ INSTRUCTIONS — All the safety and operating instructions should be read before the appliance is operated.

RETAIN INSTRUCTIONS — The operating instructions should be retained for future reference.

HEED WARNING — All warnings on the appliance and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS — All operating and use instructions should be followed.

WATER AND MOISTURE — The appliance should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

LOCATION — The appliance should be installed in a stable location.

WALL OR CEILING MOUNTING — The appliance should not be mounted to a wall or ceiling.

VENTILATION — The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

HEAT — The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

POWER SOURCES — The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

POWER-CORD PROTECTION — Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

POLARIZATION — If your purchased product is provided with a polarized power plug, please read the following instructions. This product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

CLEANING — The appliance should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.

POWER LINES — An outdoor antenna should be located away from power lines.

NONUSE PERIODS — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

OBJECT AND LIQUID ENTRY — Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

DAMAGE REQUIRING SERVICE — The appliance should be serviced by a Pioneer authorized service center or qualified service personnel when:

- The power-supply cord or the plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the appliance; or
- The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped; or the enclosure damaged.

SERVICING — The user should not attempt to service the appliance beyond that described in the operating instructions. For all other servicing, contact the nearest Pioneer authorized service center.

OUTDOOR ANTENNA GROUNDING — If an outside antenna is connected to the antenna terminal, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

In the U.S.A. section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Fig. A.

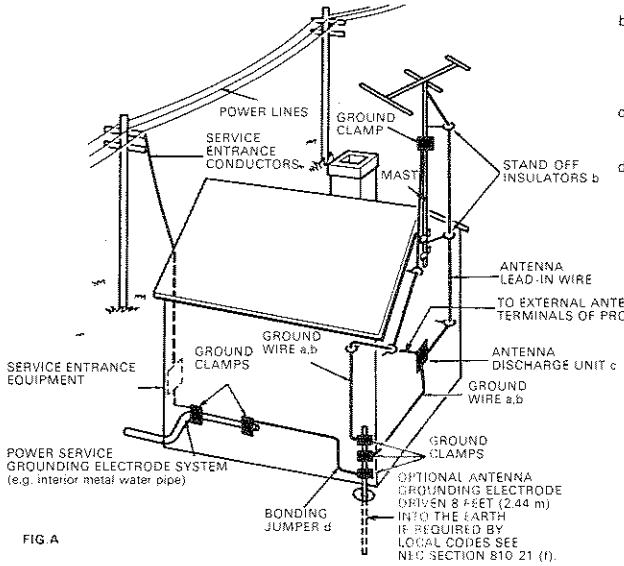

POWER LINES
GROUND CLAMP
SERVICE ENTRANCE CONDUCTORS
MAST
STAND OFF INSULATORS b
ANTENNA LEAD-IN WIRE
TO EXTERNAL ANTENNA TERMINALS OF PRODUCT
GROUND WIRE a,b
GROUND CLAMPS
ANTENNA DISCHARGE UNIT c
SERVICE ENTRANCE EQUIPMENT
GROUND WIRE a,b
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (e.g. interior metal water pipe)
OPTIONAL ANTENNA GROUNDING ELECTRODE DRIVEN 8 FEET (2.44 m) INTO THE EARTH IF REQUIRED BY LOCAL CODES SEE NEC SECTION 810-21 (f).
BONDING JUMPER d

FIG.A

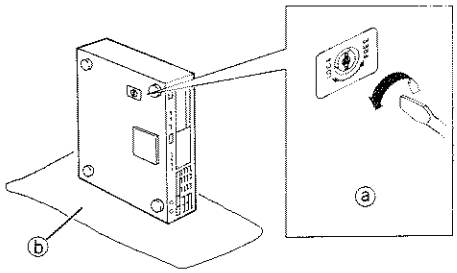
a) Use No. 10 AWG (5.3 mm^2) copper, No. 8 AWG (8.4 mm^2) aluminum, No. 17 AWG (1.0 mm^2) copperclad steel bronze wire, or larger as ground wire.

b) Secure antenna lead-in and ground wires to house with stand-off insulators spaced from 4 feet (1.22 meters) to 6 feet (1.83 meters) apart.

c) Mount antenna discharge unit as closely as possible to where lead-in enters house.

d) Use jumper wire not smaller than No.6 AWG (13.3 mm^2) copper, or the equivalent, when a separate antenna-grounding electrode is used.
See NEC Section 810-21 (j).

1



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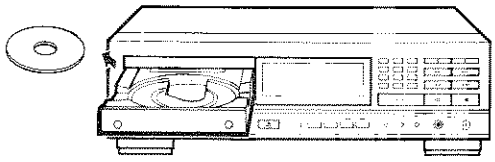

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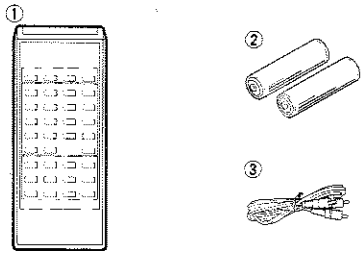

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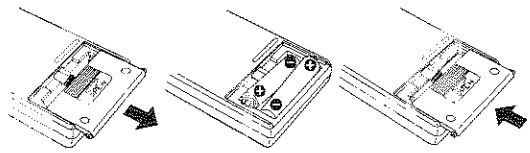

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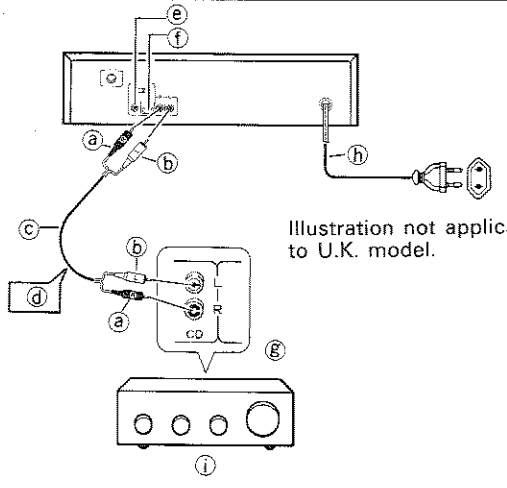
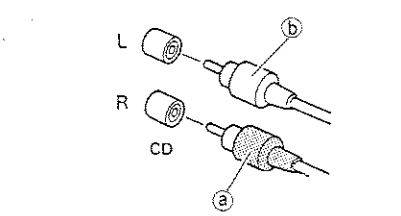


Illustration not applicable to U.K. model.



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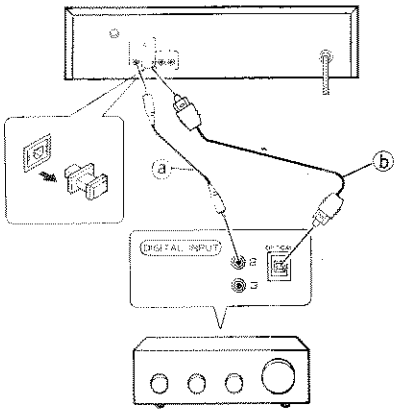

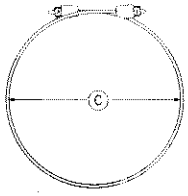

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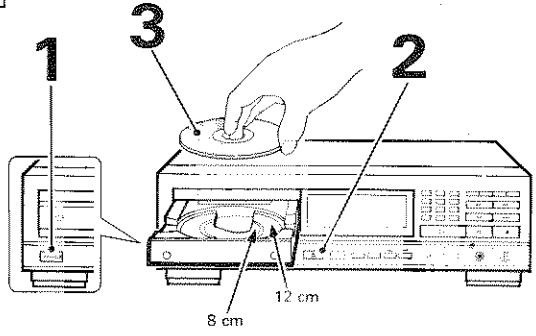

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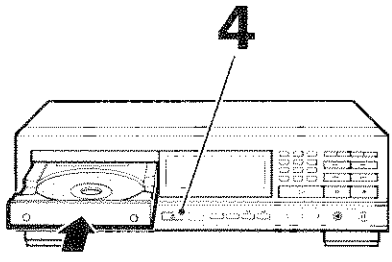

IMPORTANT 2

If the apparatus is fitted with AC mains power outlet(s), see REAR PANEL FACILITIES for convenient connection of additional Hi-Fi component(s). Make all connections to the AC outlet(s) and the signal terminals first. Connect the plug to the wall socket last, make sure that the power switch is off.

FOR USE IN THE UNITED KINGDOM

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured marking identifying the terminals in your plug proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red
Equipment sold in the U.K is not supplied with a power plug

[FOR EUROPEAN AND U.K. MODELS]

CAUTION

This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.
Refer all servicing to qualified personnel.

The following caution label appear on your player.

Location: rear of the player

[FOR U.S. MODEL]
CAUTION

- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- The use of optical instruments with this product will increase eye hazard.

INFORMATION TO USER [FOR U.S. MODEL]

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation

If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- reorient the receiving antenna
- relocate this equipment with respect to the receiver
- move this equipment away from the receiver
- plug this equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:
"How to Identify and Resolve Radio-TV Interference Problems".
This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

The above instructions apply only to units which will be operated in the United States

"This product is manufactured to comply with the radio interference requirements of EEC Directive 76/889/EEC and 82/499/EEC."

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

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FEATURES

A CD player with a 8fs digital filter and a glitchless twin linear envelope D/A converter system for quality sound and functionality.

- Honeycomb chassis for high rigidity and suppression of resonance.
- Disc stabilizer and ballast base optical mechanism with low center of gravity for stable playback.
- Rigid feet, and excellent audio insulation for reduced vibration.
- High-performance, 8-times over sampling digital filter and independent left and right D/A converters.
- Coaxial digital output and optical digital output terminals are provided.
- Equipped with a digital level controller.

Direct track selection

The desired tracks can be played by pressing their corresponding track number keys.

Besides auto-program editing, the digital level controller allows more convenient tape-editing features.

- Time Fade Editing
  After specifying the desired time period, playback will last for only that time period, with automatic fade-out at the end of playback. The player will then go into pause mode.
- Auto Program Editing
  After specifying the desired time period, tracks will be automatically programmed to playback in order from specified track within the specified time period.
- Music Window
  Up to 10 music windows in a track can be specified and played consecutively. This windows are joined by fade in and fade out. This function can be used to create background music or special sound effects.
- Auto Fade-In and Auto Fade-Out
  Fade-in and fade-out can be done anywhere in the disc.
- Auto Space
  A break of 3 seconds is automatically inserted between tracks. This is convenient for tape editing with tape decks having skip search and music search capability.
- Pause Program
  A pause can be incorporated into a program.
- Program Time Display
- Advance Programming
  During normal playback, a program may be incorporated or added.

Random Play/Programmed Random Play

Tracks from the inserted disc are played at random.

Compatible with 8 cm CD Single

8 cm CD Single can also be played.

Numeric keys are featured on the player and the remote control unit for quick track selecting.

The large fluorescent display can show the elapsed time, total time, track remain time, and total remain time. The output level can also be displayed.

- The total playback time and the remaining playback time can also be displayed.

Multi-function remote control unit is supplied.

- The output volume can be controlled by sending a signal from the remote control unit to the digital level controller.
- Except for turning the power on and auto space, the remote control unit can operate most of the player's functions.

Acufocus system
Reading errors of signals on the disc are greatly reduced and sound clarity is improved.

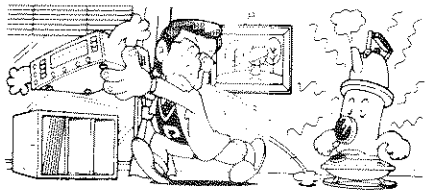
Timer start

If a disc is set on the disc tray beforehand, then, when the power is turned ON or when activated by a TIMER, the player will automatically start playing from track 1.

CAUTIONS REGARDING HANDLING

LOCATION
Install the player in a well ventilated location where it will not be exposed to high temperature or humidity.

Do not install the player in a location which is exposed to direct rays of the sun, or near to hot appliances or radiators. Excessive heat can adversely affect the cabinet and internal components. Installation of the player in a damp or dusty environment may result in malfunction or accident. (Also avoid installation near cookers etc., where the player may be exposed to smoke from oil, steam or heat.)

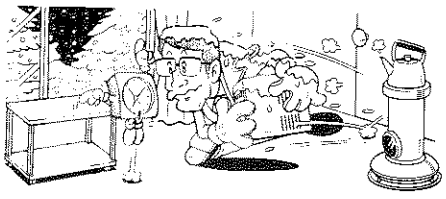


PRECAUTIONS REGARDING INSTALLATION

- Placing and using the compact disc player for long periods on heat-generating sources such as amplifiers will affect performance. Avoid placing the player on heat-generating sources.
- Install this compact disc player as far as possible from tuners and TV sets. A compact disc player installed in close proximity to such equipment may cause noise or degradation of the picture. Such noise may be particularly noticeable when an indoor antenna is used. In such a case, make use of an outdoor antenna, or turn off power to the compact disc player.

CONDENSATION

- When the player is brought into a warm room from previously cold conditions or when the room temperature is suddenly increased, condensation may form inside and the player may not be able to attain its full performance. In cases like this, allow the unit to stand for about an hour or raise the room temperature gradually.

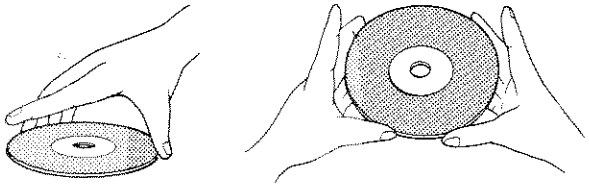


CARE OF DISCS

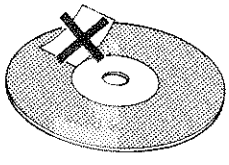
- With this player, use discs which display the mark shown below. (Optical audio digital discs.)

COMPACT disc DIGITAL AUDIO

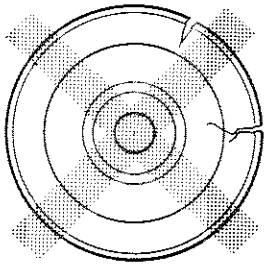
- When holding discs, do not touch their signal surfaces. Hold the edges, or one edge and the center hole.



- Do not affix labels or adhesive tape to the label surfaces. Also, do not scratch or damage the label.

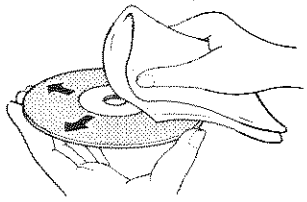


- Discs rotate at high speed inside the player. Do not use damaged (cracked or warped) discs.

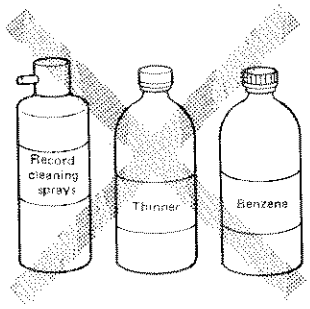


CLEANING DISCS

- The presence of fingerprints or smudges on the surface of the disc will not directly affect the recorded signals; but depending on the degree of contamination, the brightness of the light reflected from the signal surfaces may be reduced, causing degradation of sound quality.
  Always keep your discs clean by wiping them gently with a soft cloth from the inner edge toward the outer perimeter.

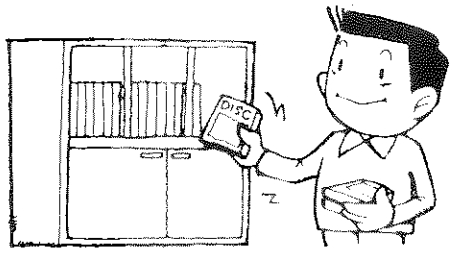


- If a disc becomes very dirty, wet a soft cloth in water. After wringing it out well, wipe the dirt away gently, and then remove any water drops with another soft dry cloth.
- Do not use record cleaning sprays of anti-static agents on discs. Also, never clean discs with benzene, thinner, or other volatile solvents which may cause damage to the disc surface.



STORING DISCS

- Discs are made of the same kinds of plastic used for conventional analog audio records. Be careful not to allow discs to warp; always store discs in their cases vertically, avoiding locations with high heat or humidity, or extremely low temperatures. Avoid leaving discs in cars and on the seats being exposed to direct sunlight can be harmful.
- Always read and abide by the precautionary notes listed on the disc labels.



CLEANING THE PLAYER

To clean the front panel and unit housing, wipe with a soft, dry cloth. For stubborn dirt, wet a soft cloth with a mild detergent solution, wring well, then wipe off the dirt. Also use a dry cloth to wipe the surface dry. Do not use volatile liquids such as benzene and thinner which are harmful to the unit.

TRANSPORTATION SCREW

● See Fig. 1 on page 3.
The unit has a transportation screw to secure and protect the internal mechanism from vibration during transport. Before using the unit, be sure to disengage this screw.
1 As shown on the figure on the right, lay the player on its side.
Use a flat-blade screwdriver to turn the screw on the bottom of the unit counterclockwise 180° to FREE. The screw is now disengaged.
2 Set the player on its bottom.
ⓐ : Turn halfway (180°) to FREE.
ⓑ : Lay the piece of cloth.
● When transporting the unit, set the screw back to its original position (to LOCK).

BEFORE OPERATING PLAYER

1. CONFIRM SUPPLIED ACCESSORIES

● See Fig. 3 on page 3.
① Remote control unit
② Size AAA/R03 dry cell batteries x 2
③ Output cable

● The remote control unit and batteries are located in the rear of the packing material.

2. PUT BATTERIES INTO REMOTE CONTROL UNIT

● See Fig. 4 on page 3.

1. Open the rear cover, and install batteries making sure that the ⊕ ⊖ polarity is correct.

2. Close the cover.

NOTE:
- *If the remote control unit will not be used for a long time (1 month or more), remove the batteries to avoid battery leakage. If fluid should ever leak from batteries, wipe away the fluid and then install new batteries.*
- *Do not put books etc. on top of the remote control unit. If keys are continuously depressed, the batteries will run down.*
- *If the operating range decreases, the batteries have probably run out. Please replace with new batteries.*

Incorrect use of batteries may result in leakage of fluid, explosion of batteries and other dangers. Please pay particular attention to the following points.
- Please correctly install batteries so that the (+) and (–) battery polarity matches with the (+) and (–) markings inside the battery case.
- Do not use new batteries together with batteries which have already been used.
- The voltages of dry batteries may differ even though they are of the same size and shape. Please do not use different types of dry batteries together.
- Batteries may be either rechargeable or non-rechargeable. Before using batteries please read the cautions and notes printed on them.

CONNECTIONS

● See Fig. 5 on page 3.
ⓐ : Red
ⓑ : White
ⓒ : Output cable
ⓓ : Make sure not to connect to the PHONO input terminal used for record players, as sound will be distorted, and normal playback will not be possible.
ⓔ : Coaxial digital output terminal
ⓕ : Optical digital output terminal
ⓖ : CD or AUX terminals
ⓗ : Power cord
ⓘ : Stereo amplifier

Connecting the output cable

Connect the plugs of the cable to the input terminals of the amplifier (terminals marked CD or AUX), and to the output terminals of the compact disc player.
- Connect the white plugs to the left (L) terminals and the red plugs to the right (R) terminals.
- Make sure plugs are pushed fully into the terminals.

Connect the power cord

Insert the power cord plug into the auxiliary AC outlet of your amplifier unit, or into a household wall outlet.

Digital output connection

● See Fig. 6 on page 3.
ⓐ : When using a coaxial cable
ⓑ : When using an optical fiber cable
ⓒ : 5-15/16 in (15 cm) diameter or larger

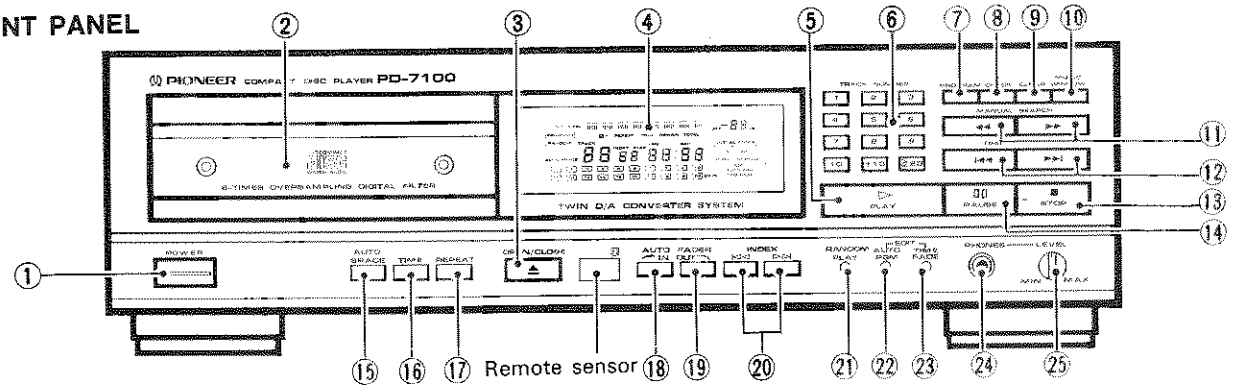
NOTE:
- *Fade-in, fade-out, and other volume control cannot be done through the digital output terminal.*

Handling precautions for the optical fiber cable (sold separately)

- Do not bend the cable at sharp angles. Doing so may damage the cable. When installing in a rack, take special care. When storing the cable for storage, coil with 5-15/16 in (15 cm) diameter or larger.
- When connecting, insert the plug fully. Avoid an incomplete connection.
- Use an optical fiber cable 10 feet (3 meters) or less.
- Avoid the optical fiber cable plug being scratched or exposed to dust. If there is dust, wipe off with a soft cloth.
- When an optical fiber cable is not connected, place the dust cap on the optical terminal (OPTICAL).

NAMES AND USES OF PARTS

FRONT PANEL



① POWER switch

Press to turn power to the unit ON and OFF.
If there is a disc in the unit when power is turned ON, playback will begin automatically. (Timer start function)

② Disc Tray

This is where the disc is set. When power is switched ON and the OPEN/CLOSE key is pressed, the tray is ejected forward. To insert the tray, press the OPEN/CLOSE key, or lightly push the tray in with your finger. With the disc tray open, pressing the PLAY key or TRACK NUMBER key will close the disc tray and start playback.

③ OPEN/CLOSE key (⏏)

Press when you wish to eject or load a disc. Each time the key is pressed, the tray is alternately pushed out or pulled in.

④ Indicators

See page 9.

⑤ PLAY key/Indicator (▷)

Press to begin playback, and to cancel the pause mode.

⑥ TRACK NUMBER keys (1 to 10, +10 and ≧20)

- These keys are used to specify the track numbers (tracks 1 to 99) for direct track selection or program entry.
- During auto program editing or time fade editing, the keys are used to specify the time period (in minutes).
- These keys are also used to set the fade-in and fade-out times (0 to 9 seconds).

⑦ PROGRAM MEMORY key

This is used to program tracks to play in a desired sequence.

- Press this key to set the unit to program mode. Then specify the desired tracks with the TRACK NUMBER keys. The tracks will be programmed as they are entered in this way.

⑧ PROGRAM CHECK key

Press this key to check the contents of a program that has been entered. Starting with step 1 of the program, the next program step will be shown each time the key is pressed.

⑨ PROGRAM CLEAR key

Press this key during program entry, music window entry, or playback to clear the last program step.
This will also cancel the time fade editing mode.

⑩ MUSIC WINDOW key

Use this key to specify the desired sections (music windows) of a track.

- Press this key at the starting point of the desired music window. Continue playback and press this key again at the ending point of the desired music window. This enters one music window. Up to 10 music windows can be programmed in this way.

⑪ MANUAL SEARCH keys

When the player is in play or pause modes, these keys are pressed to perform fast forward or fast reverse operations, to allow manual searching. These operations are only carried out during the time either key is pressed.

[▶▶] : Fast forward operation (If fast forward operation is performed to the end of the disc, "End" will be displayed and the player will enter pause mode.)
[◀◀] : Fast reverse operation (If fast reverse operation is performed to the beginning of the disc, the player will enter play mode.)

- For programmed playback, when the forward search reaches the next track, it will enter the pause mode. When it reaches the beginning of the track in reverse search, the player will enter the playback mode. During music window playback, right before the next or previous fade out starts, the unit will enter the pause mode (or the play mode).
- Manual search cannot be done during music window fade-in and fade-out.

⑫ TRACK SEARCH keys

During playback (or programmed play) or pause, these keys are used to search for the desired track. The search keys are pressed to advance or reverse the player to the next or previous track respectively.
When pressed during stop mode, the playing time of the displayed track will be displayed in the program order.

[▶▶|] : Pressing this key once will advance the player to the beginning of the next track. Holding down the key will advance the player to the beginning of the following tracks. [During programmed playback and music window playback, the player will advance to the beginning of the following programmed track(s) or window(s)].
[|◀◀] : Pressing this key once will reverse the player to the beginning of the currently-playing track. Holding down the key will reverse the player to the beginning of the previous track(s). During programmed playback, the player will reverse to the beginning of the previous programmed track(s) or window(s)].

⑬ STOP key (■)

Press to stop playback. When pressed, the player goes into stop mode and all operations stop.
Press to clear a program. When pressed during stop mode, the program stored in memory is cleared.

⑭ PAUSE key/Indicator (▯▯)

Press to temporarily interrupt playback. When pressed again, the pause mode is cancelled and playback resumes.

⑮ AUTO SPACE key

During playback, there will be a pause of about three seconds before the next track is played.

⑯ TIME key

- This switches the indicator display mode. Each time the key is pressed, the display will show TIME, REMAIN, and TOTAL respectively. (For a description of each display mode, refer to the item concerning the indicator.)

⑰ REPEAT key

Press this key for repeat playback. Pressing the key once, twice, or three times will change the repeat mode from single track repeat, all tracks repeat, and repeat playback cancellation.

Single track repeat:

The currently-playing track will repeat. The key can be used during normal playback, program playback, random playback. During music window playback, one window will be repeated.

All tracks repeat:

All tracks on the disc will be repeated.

- If pressed during normal playback mode, all tracks on the disc will be repeatedly played back.
- If pressed during programmed playback, the programmed tracks will be repeatedly played back in the programmed order.
- In the case of random play mode, after all the tracks have been played, random play will start again.
- During programmed random playback, after the programmed tracks are played at random, programmed random playback will be repeated.
- During music window playback, the windows will be repeated in the programmed order.

⑱ AUTO FADER IN ⌐ key

Press this key to start playback with fade-in sound. (Effective only during playback pause mode and fade-out.) Press this key when setting the fade-in operation time (0 to 9 sec.) (Effective only during stop mode.)

⑲ AUTO FADER OUT ¬ key

Press this key for fade-out sound. (After fade-out is completed, the unit will enter pause mode.) Press this key when setting the fade-out operation time (0 to 9 sec.) (Effective only during stop mode.)

⑳ INDEX SEARCH keys

Searches, during playback or pause, for the music section of a track or the track index. When pressed, the unit will return to the previous index or advance to the next index.

[▷▷|] : Advances to the next index number.
[|◁◁] : Returns to the index number of the currently-playing music section or track.

㉑ RANDOM PLAY key

Press to begin random playback.

㉒ AUTO PGM EDIT key

Press to program a tune which may be played back within a specified time.

㉓ TIME FADE EDIT key

Press this key when ending play at a desired time with fade out.

㉔ PHONES (headphones) jack

When you wish to use headphones, insert the plug for the headphones into the headphone jack.

㉕ PHONES LEVEL control knob

Use to adjust the level of sound when using headphones. Turning the knob to the right increases the sound level.

Indicators

ATT LEVEL : The volume level of fade-in, fade-out, and digital level control is displayed.
PROGRAM : Lights during the program mode.
RANDOM : Lights during random playback.
AUTO SPACE : Lights during auto space playback.
1▸ REPEAT : Lights during repeat playback of one track.
REPEAT : Lights during repeat playback of all tracks (or programs).

TRACK
1 — 20 , OVER
(Music calendar) : Display the current track number (during normal playback and programmed playback) or the track being programmed during programming operation. The lower figures light up in accordance with the number of tracks recorded on the disc, and the numbers of the tracks which have been played are deleted in order. (During entering a program, and programmed playback only the programmed tracks light.) For 21 or over, OVER will light.
INDEX : Displays the index * number of the music section of a track or the track division.
STEP : Displays the program steps.
TIME/REMAIN/TOTAL : Changes each time the TIME, key is pressed.

- TIME : Displays the track number of the track being played (TRACK) and the elapsed time (minutes and seconds).
- REMAIN : Displays the remaining time on the track being played.
  When the TIME key is pressed again, the remaining time on the disc will be displayed.
- TOTAL : Displays the total number of tracks on the disc (TRACK) and the overall playback time (minutes and seconds).
  During playback, the display goes on for about 5 seconds before changing to the TIME display.

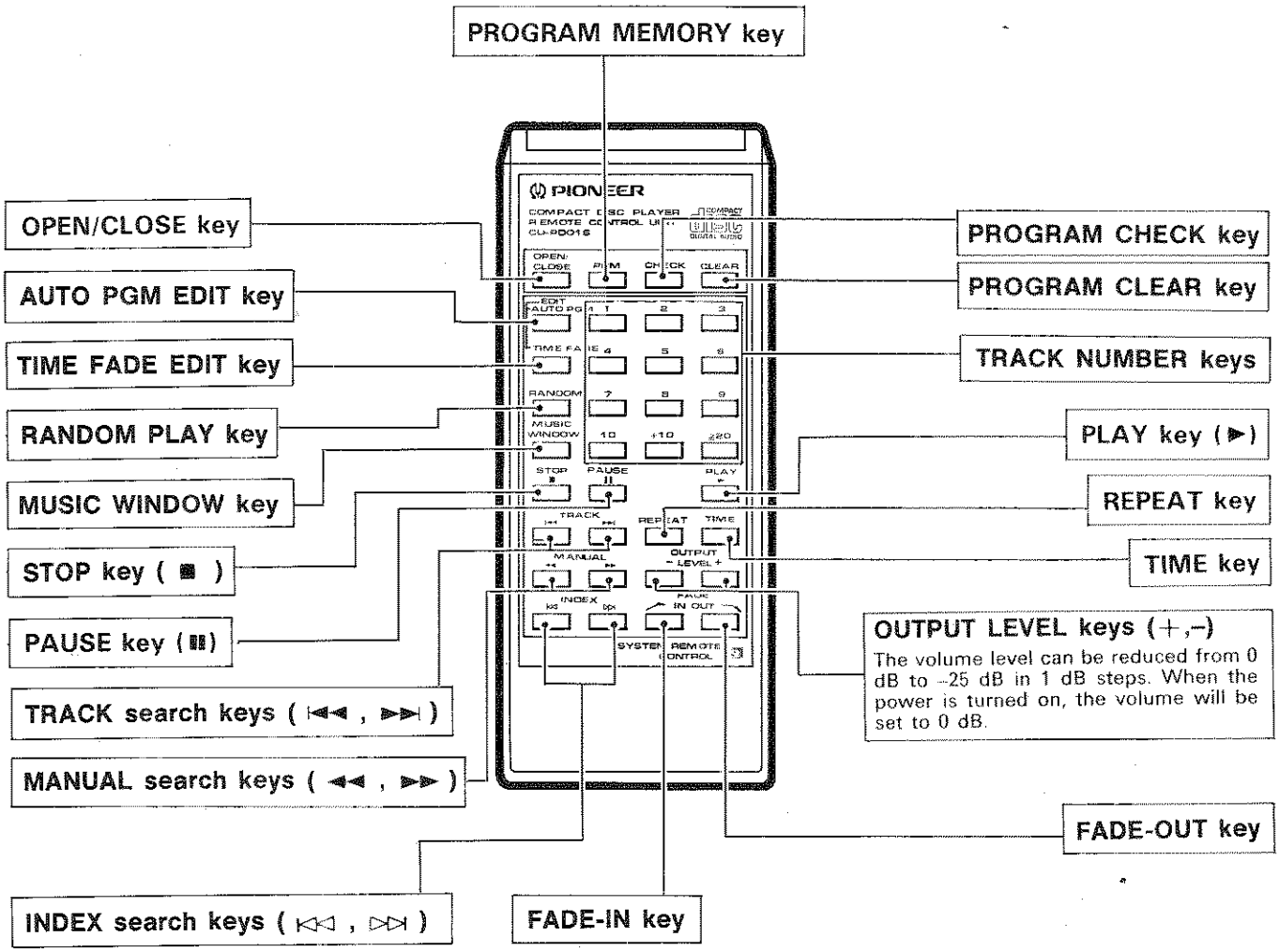
During programmed playback operation, displays the playing time, the remaining time of the track being played and the total program steps (TOTAL). During time fade editing mode playback, TIME-FADE-REMAIN will be displayed instead of remaining time on the disc.

MIN (minute) : Displays the minutes of the elapsed time, total playback time, and remaining time.
SEC (second) : Displays the seconds of the elapsed time, total playback time, and remaining time.
ATT : Displays the volume decrease (–dB) of fade-in, fade-out and digital level control.
⌐IN : Lights during fade-in operation and when the fade in time is being set.
¬OUT : Lights during fade-out operation and when the fade out in time is being set.
MUSIC WINDOW : Lights when a music window has been programmed.
AUTO PGM : Displays when auto program editing is set or used.
TIME FADE : Displays when time fade editing is set or used.

* The INDEX is a signal which is recorded within a track to indicate division of the track into separate tunes and items of music.

REMOTE CONTROL UNIT

Refer to player front panel section regarding other key functions not specified here.


PROGRAM MEMORY key
OPEN/CLOSE key
AUTO PGM EDIT key
TIME FADE EDIT key
RANDOM PLAY key
MUSIC WINDOW key
STOP key (■)
PAUSE key (II)
TRACK search keys (⏮ , ⏭)
MANUAL search keys (◀◀ , ▶▶)
INDEX search keys (⏮ , ⏭)
FADE-IN key
PROGRAM CHECK key
PROGRAM CLEAR key
TRACK NUMBER keys
PLAY key (▶)
REPEAT key
TIME key
OUTPUT LEVEL keys (+,–)
The volume level can be reduced from 0 dB to –25 dB in 1 dB steps. When the power is turned on, the volume will be set to 0 dB.
FADE-OUT key

Digital Level Controller (Volume adjustment)

By pressing the LEVEL –/+ key, the volume level can be controlled from 0 dB to –25 dB in 1 dB steps via digital circuit processing.

- To increase the volume —— Press the LEVEL [+] key. (If the level is 0 dB, there will be no change.)
- To decrease the volume —— Press the LEVEL [–] key. (If the key is held down, the level will stop at –25 dB.) The level will be displayed on the ATT LEVEL indicator and ATT indicator.

NOTE:

The headphone level can also be adjusted at the same time. However, the volume of the digital output from the DIGITAL OUT terminals cannot be adjusted.

NOTE:

Conventional Pioneer remote control units (with the SR mark) and audio video programmable remote control units do not have the +10 and ≧20 keys. Therefore, direct track selection from track 11 on, and programs with more than 11 tracks cannot be entered with these remote control units. Operate the audio video programmable remote control unit by using the learning function.

SUBCODE OUT terminal (U.S. model only)

This terminal will be used to output subcodes (data recordable on compact discs together with audio signals) in future audio applications.

DIGITAL OUTPUT selector

This selects the rear panel's output terminal that is to be used. Select the output terminal type that is to be used.

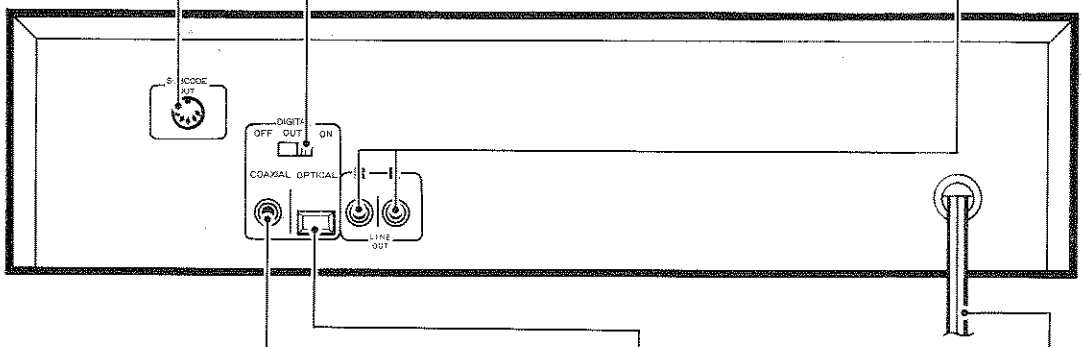
ON : When the audio and digital (coaxial or optical) output terminals are used simultaneously.

OFF : When the only audio output terminal is used. The operation of unused circuits is stopped to prevent them from affecting sound quality.

NOTE:

The digital level of fade-in and fade-out cannot be controlled through the digital output terminal.

LINE OUT terminals



POWER CORD

COAXIAL DIGITAL OUTPUT terminal

This terminal allows output of disc audio data and subcode (signals which can be recorded together with the audio signal) as digital signals.

OPTICAL DIGITAL OUTPUT terminal

This terminal allows optical output of disc audio data and subcode (signal which can be recorded with the audio signal) as digital signals.

- The coaxial cable and optical fiber cable are sold separately.

OPERATION

- All figures following the name of each key correspond to the description of the controls on the front panel and the remote control.

OPERATION PROCEDURES BEFORE PLAYBACK (Inserting a disc)

- See Fig. [7] and [8] on page 3.

1. Push in the POWER switch ① turn on ON power.

2. Press the OPEN/CLOSE key ③.

The disc tray will be ejected forward.
When using the player for the first time, remove the spacer inserted in the disc tray. (See Fig. [2] on page 3.)

3. Place a disc on the disc tray ②.

Insert the disc on the tray while following the respective disc guide (8 cm or 12 cm disc guide), as shown in the figure.

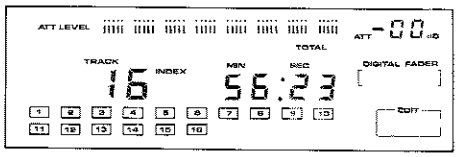
NOTE:

- *When setting an 8 cm CD single, do not use the 8 cm CD single adapter.*
- *Make sure to place the disc on the tray with the label side up.*
- *Hold the disc so that you do not touch the playing side (the iridescent side) with your hands or fingers.*
- *If both 8 cm and 12 cm Discs are inserted and played simultaneously, the disc may be scratched or malfunction may result. Insert only one disc at a time.*

4. Push the disc tray ② into the player.

Press the OPEN/CLOSE key ③, or gently push the disc tray in with your fingers.
After insertion of the disc tray, the total number of tracks on the disc and the total playing time will be displayed for 5 seconds.

Disc Setting



(Output selection)

5. Set your stereo amplifier controls for compact disc playback.

(For details refer to the operating instructions of your stereo amplifier.)

PROCEDURES AFTER PLAYBACK (Removal of disc)

1. Press the OPEN/CLOSE key ③ and eject the disc tray ②.

2. Remove the disc and put it into its case.

Be careful not to touch the playing side.

3. Press the OPEN/CLOSE key ③, or gently push the disc tray ② in with your fingers.

4. Press the POWER switch ① so as to turn OFF power.

OPERATIONS FOR NORMAL PLAYBACK

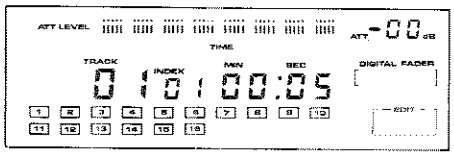
Playback of all tracks, from the first track to the last track.

1. Carry out "OPERATION PROCEDURES BEFORE PLAYBACK", and set a disc.

2. Press the PLAY key ⑤.

The TRACK NUMBER key "1" ⑥ can also be used.
The PLAY indicator will light, and playback will begin.
Shows the elapse time of current playback, and the track number.

Normal Playback



3. Adjust sound volume and tone with the stereo amplifier controls.

When the last track finishes playing, the player enters stop mode. All operations stop and the player stops at the position of the disc's starting track number.

4. After finishing playback, carry out the "PROCEDURES AFTER PLAYBACK".

Operation example

- To start playback

POWER - OPEN/CLOSE - Set disc - PLAY

- To stop playback

OPEN/CLOSE - Remove disc - OPEN/CLOSE - POWER

PLAYBACK FROM THE DESIRED TRACK (DIRECT SELECTION)

Playback starts from the selected track and continues to the last track.

During stop mode or normal playback, select the track with the TRACK NUMBER keys.

Tracks 1 to 10 can be specified directly with the 1 to 10 number keys.

- When specifying track 11 and beyond, press the +10 key, and then press one of the 1 to 10 keys to specify the second digit. Each time the +10 key is pressed, the number will increase by a factor of 10. (For 0, use the 10 key.)
- To specify track 20 and beyond, press the ≧20 key and one of the 1 to 10 keys for the first digit (for 10, 20, 30, etc.) and for the second digit. (For 0, use the 10 key.) When specifying a track with the 1 to 10 keys during playback, the selected track will be searched for immediately. However, the track number must be selected within 4 seconds after the +10 key and ≧20 key is pressed. Otherwise, it will be cancelled.

● The indicators are shown for a case in which the TIME setting is used.

NOTE:
- *Track numbers not on the disc cannot be specified.*
- *When the disc tray is open, etc., and if a track number not contained in the disc is specified, playback will start from track 1.*
- *Direct selection cannot be done during program mode.*

Operation example

- To play track 3.
  [3]
- To play track 20.
  [+10] [+10] [10] or [≥20] [2] [10]
- To play track 36.
  [≥20] [3] [6] or [+10] [+10] [+10] [6]

NOTE:
Direct selection cannot be done during programmed play (see page 15).

PLAYBACK WITH A 3-SECOND PAUSE BETWEEN TRACKS (Auto space)

A three-second interval can be inserted between tracks (or music windows). When recording on tape, an interval is automatically inserted between tracks to allow music search of the tape.

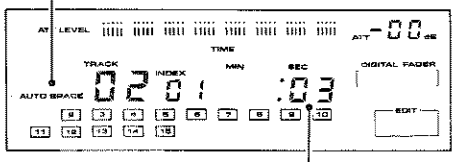
1. Press the AUTO SPACE key ⑮.

2. Start playback.

When the first track ends, there will be a three-second break before the next track starts to play. The indicator will also display a three-second countdown.

Auto space can be used for all playback modes (to be described later).

The AUTO SPACE indicator



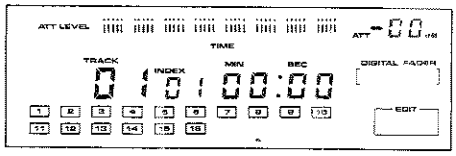
During the auto space interval, the indicator will display a countdown in seconds; –:03, –:02, –:01.

TO STOP PLAYBACK

1. Press the STOP key ⑬ or the OPEN/CLOSE key ③.

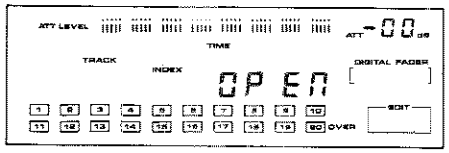
- When the STOP key ⑬ is pressed, the player enters the stop mode and all operations stop.
- When stopped in the normal playback mode, the first track number is displayed on the indicator; when stopped during programmed playback, the first track number of the program will be displayed.

Playback Stop



[STOP] or [OPEN/CLOSE]

- When the OPEN/CLOSE key ③ is pressed, the disc tray ② is ejected.



PAUSE OPERATION

1. Press the PAUSE key ⑭.

The PAUSE indicator will light, and the player will pause at the position at which it was playing.

2. To resume playback, press the PAUSE key ⑭ again, or the PLAY key ⑤.

Operation example

- To temporarily stop playback
  [PAUSE]
- To resume playback
  [PAUSE] or [PLAY]

TO PAUSE AT THE START OF A TRACK

1. Press the PAUSE key ⑭.

2. Select a track with the TRACK NUMBER keys ⑥.

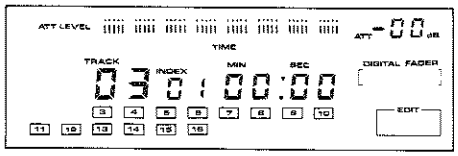
3. To start playback press the PAUSE key ⑭ or the PLAY key ⑤.

NOTE:
During program entry (see page 15), pressing the PAUSE key ⑭ while in stop mode will enter a pause into the program. A pause will not be executed. To execute a pause, cancel the program mode first by pressing the PROGRAM MEMORY key ⑦ again.)

Operation example

- To pause at the start of the 3rd track:
  PAUSE → 3
- To start playback:
  PAUSE or PLAY

Pause at the Desired Track



OPERATIONS FOR REPEAT PLAYBACK

Single track repeat mode:

- The currently-playing track will repeat. (Single track repeat)

All tracks repeat mode:

- During normal playback, all tracks on the disc will be played back repeatedly (all track repeat).
- During programmed playback, the tracks programmed will be played back repeatedly in the order programmed (programmed repeat).
- In the case of random play mode, after all the tracks have been played, random play will start again.
- During programmed random playback, after the programmed tracks are played at random, programmed random playback will repeat (program random repeat).
- During music window playback, windows will be repeated in the programmed order (music window repeat).

1. With the player in the playback or stop mode, press the REPEAT key ⑰.

When pressed once, it will enter the single track repeat mode. The [1-REPEAT] indicator will light. If the key is pressed again, all the tracks on the disc will be repeated. The [REPEAT] indicator will light.

2. After the single track or all the tracks are played, repeat playback will begin.

Playback will be repeated until repeat playback is cancelled.

Single track repeat :	REPEAT → PLAY or	
	PLAY → REPEAT	
All tracks repeat :	REPEAT → REPEAT → PLAY or	
	PLAY → REPEAT → REPEAT	

■ TO CANCEL THE REPEAT MODE

- Press the REPEAT key ⑰ until the REPEAT indicator goes off. The player will revert to the normal (or programmed) playback mode.
- Press the STOP key ⑬ or OPEN/CLOSE key ③. Playback will stop and the repeat mode will be cancelled simultaneously.

REPEAT or STOP or OPEN / CLOSE

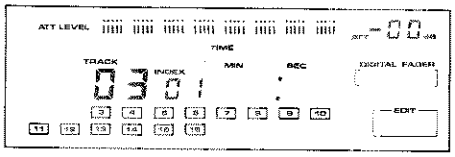
TO LOOK FOR A DESIRED TRACK (TRACK SEARCH OPERATIONS)

During playback (programmed or Music Window playback) or pause, the beginning of the desired track can be quickly searched for. Tracks can be skipped while searching.

- [⏭] Each time this key ⑫ is pressed, it will advance to the next track. Holding it down will advance it to the following tracks continuously. (For a program, it will advance to the next programmed track. For a Music Window program, it will advance to the next programmed Music Window.)
- [⏮] When this key ⑫ is pressed once, it will reverse to the beginning of the currently-playing track. Holding it down will reverse the player to previous tracks. (For a program, it will reverse to the previous programmed track. For a Music Window program, it will reverse to the previous programmed Music Window.)

During search operation, the number of the track being searched for will be displayed on the indicator. This allows you to monitor the progress of the search operation.

Search for the Desired Track

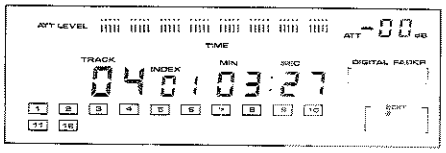


NUMBER OPERATION

Displaying the playing time of a track (Single-track time display)

During the stop mode, press the [⏭] key to display the playing time of each track, starting with track 1. The [⏮] key will show the track playing time in reverse order.

NOTE:
There will be no display after track 30.



Displaying the playing time of track 4. (Press the [⏭] key 4 times.)

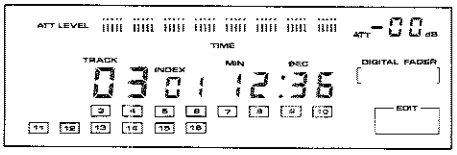
FAST FORWARD AND REVERSE (MANUAL SEARCH OPERATIONS)

During playback or pause modes, this function allows you to quickly advance or reverse through the disc to find a desired part. Listen to the sound from your speakers or headphones connected to your amplifier while performing the search (during playback mode only). When the key is released the player returns to its original mode (playback or pause). During pause, faster search can be performed. However, no sound will be output.

- When the [⏩] key ⑪ is pressed, the player will advance quickly through the disc. If the end of the disc is reached, the player will enter the pause mode. (The indicator will display "End".)
  Pressing the [⏪] key key ⑪ will cancel the pause mode.
- When the [⏪] key ⑪ is pressed, the player will reverse quickly through the disc. If the beginning of the disc is reached, the player will enter the play mode.

During search operation the elapsed time will be displayed. Watch this display during search operation.

Manual Search



NOTE:

- *During programmed playback, fast forward and reverse can be done only for the currently playing track. Therefore, if the [▶▶] key ⑪ is pressed and held down until the end of the currently-playing track is reached, the player will enter pause mode. To continue playback, press the PLAY key ⑤, PAUSE key ⑭, or the [◀◀] key ⑪. Also, if the [◀◀] key ⑪ is pressed and held down until the start of the currently-playing track is reached, the player will enter the play mode.*
- *During music window playback, only the currently-playing window can be fast forwarded or reversed. Also, right before the fade out of the next window begins, the player will enter the pause mode. To resume playback, press the PLAY key ⑤ or the [◀◀] key ⑪. In the same way, right before going to the previous window, the player will enter playback pause.*
- *During music window playback, fade-in will not operate if the [▶▶] key ⑪ is used to fast forward to the fade-in section.*

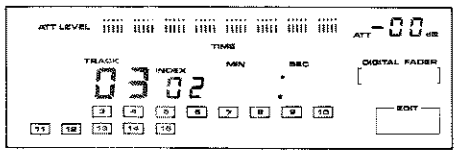
HOW TO FIND TRACK INDEXES (INDEX SEARCH OPERATION)

During playback mode or pause mode, these operations allow divisions between items of music and tunes in a track (indexes) to be searched for.

- When the [▷⋈] key ⑳ is pressed once, the player will advance to the next index number. When held depressed, the player will advance to following index numbers.
- When the [⋈◁] key ⑳ is pressed, the player will return to the start of the currently playing index. When held depressed, the player will return to preceding index numbers.

During index search operation, the number of the index being searched for will be displayed on the indicator. This allows you to monitor the progress of the search operation.

Index Search



NOTE:

- *If the specified index number does not exist, the player will search for index 1.*
- *This operation cannot be performed during music window playback, time fade playback, and programmed time fade playback.*
- *Some discs do not have index numbers recorded on them. In such cases index searching is not possible.*

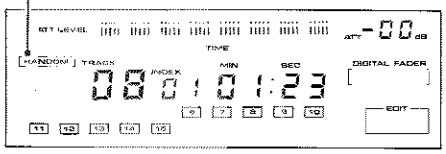
RANDOM PLAYBACK

- The player will select tracks at random from the disc set in the disc tray for playback and play each track once (Random play). Playback stops when all tracks are played.
- When tracks are programmed, they are played only once in random order. Stops playing after all tracks are played. (Program random play)

1. Press the RANDOM PLAY key ㉑.

Random playback will begin. (The RANDOM indicator will light)

The RANDOM indicator



2. Pressing the RANDOM PLAY key ㉑ once more will have the player select track at random for playback.

When the ALL TRACK REPEAT mode is ON

Random play and programmed random play continues until the REPEAT mode is cancelled.

To cancel random play operation

STOP or OPEN/CLOSE

- Press the STOP key ⑬ or the OPEN/CLOSE key ③. Playback will stop and random play operation will be cancelled simultaneously.
- Direct selection will also cancel random playback.
- The PROGRAM CLEAR key ⑨ will not function for programmed random play.
- If the track number is specified during programmed random playback, the specified track number will be added to the program while random playback continues.

TO PLAYBACK TRACKS IN A DESIRED ORDER (PROGRAMMED PLAYBACK)

- Tracks on a disc can be programmed to play in the desired sequence.
- Tracks 1 to 99 can be selected and up to 24 program steps can be entered in a program.

Program entry

- Program entry is possible during stop mode, playback, and programmed playback.

1. Press the PROGRAM MEMORY key ⑦ during stop mode, or playback.

The player will enter the program mode. Pressing the PROGRAM MEMORY key ⑦ *again will cancel the program mode.*

2. Select the tracks with the TRACK NUMBER keys ⑥.

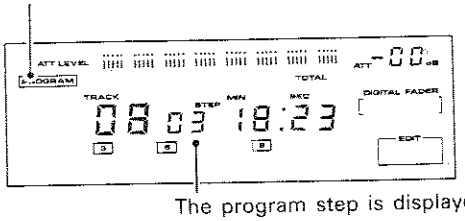
Select the tracks in the desired program sequence. Press the PROGRAM MEMORY key ⑦ after selecting each track.
Up to 24 program steps can be entered.

3. For playback instructions, see page 17, "Playback operation."

- If tracks are entered during programmed playback, they will be added to the currently-playing program.
- If the memory contains a previous program, the programmed tracks will be newly added to the previous program. To enter a completely new program, clear the previous program first.
  See page 17, "Programmed playback stop and program clear."

Each time you program a track the program step, number of the programmed track and the total time are displayed on the indicator.
Furthermore, when you program a track during playback, a display appears for about 5 seconds.

The PROGRAM indicator lights.



The program step is displayed.

Operation example

This plays tracks 5, 3, and 8 in sequence.

- Program entry (during stop mode)

Step	Key operations	Indicator display
(Program mode)	PROGRAM	
01	5	
02	3	
03	8	

- During stop mode, a pause can be programmed instead of a track number. If the PAUSE key ⑭ is pressed, "PA" will be displayed instead of a track number. In this case, the pause indicator will not light.

Example 1

When recording on both sides of a cassette tape, enter a pause after the last track that can be recorded on the first side. This will allow a pause for changing the cassette side. Recording can then resume on the second side.

Example 2

During a tape recording, a pause programmed between tracks will produce a silent recording. A narration, etc., can then be inserted before recording the next track.

NOTE:

- *A pause cannot be programmed as the first program step (01). Two consecutive pauses also cannot be programmed.*
- *A pause can be programmed for the last program step, however, it will not be effective.*

Program check

- It is possible to check the program contents while in the program mode.

Each time the PROGRAM CHECK key ⑧ is pressed, the next program step will be displayed in sequence. (When the final program step is reached and the PROGRAM CHECK key ⑧ is pressed, the indicator will display "00". Additional steps can then be entered if desired.)

The indicator displays the program step number and the track number (or pause) entered for that step.

Operation example

- Program check
  (If not already in the program mode, press the PROGRAM MEMORY key ⑦ first.)

Step	Key operations	Indicator display
01	CHECK	
02	CHECK	
03	CHECK	
End of check	CHECK	
01	CHECK	

Modifying the program

- It is possible to modify the program while in the program mode.

The program step currently displayed will be changed.
While checking the program, change the program step with the TRACK NUMBER keys ⑥.

Operation example

- Modifying the program
  This replaces track 3 in program step 02 with track 4.
  (If not already in program mode, press the PROGRAM MEMORY key ⑦.)

Step	Key operations	Indicator display
01	CHECK	
02	CHECK	
02 (Change)	4	

Program cancellation

- The program can be cancelled during program mode. Pressing the PROGRAM CLEAR key ⑨ after entering a program or during programmed playback will clear the program's last program step.

The indicator will display the changed, last program step.

NOTE:
The program step before the currently-playing step cannot be cleared.

Playback operation

- Playback is possible during program mode.

1. Press the PLAY key ⑤ to start playback.

- If a pause has been programmed, the pause will take effect at the beginning of the track following the pause program step. To restart programmed playback, press either the PLAY key ⑤ or PAUSE key ⑭ .

2. End of playback.

When the last program step is finished playing, track number will be displayed at the first program step and the player will enter the stop mode.

■ When the ALL TRACK REPEAT mode is ON.

After the last program step is finished playing, the player returns to the first program step and the program is repeated. The program will be repeated until the REPEAT mode is cancelled or until the STOP key ⑬ is pressed to stop playback.

Programmed playback stop and program clear

- During programmed playback, pressing the PROGRAM MEMORY key ⑦ again will turn off the PROGRAM indicator and the programmed playback will be cancelled. However, normal playback will continue. In this case, the program remains in memory. (Program memory)
- To recall a stored program, press the PROGRAM MEMORY key ⑦ again. The player will enter the program input mode and the stored program will be entered.
- Pressing the PROGRAM MEMORY key ⑦ again will stop the program, however, playback will still continue. The program will still be stored in memory. (Program memory)
- Pressing the OPEN/CLOSE key ③ will stop playback. (The stored program will also be cleared.)
- Pressing the STOP key ⑬ will stop playback. In this case, the stored program will not be cleared. While in stop mode, pressing the STOP key ⑬ again will clear the program.

Operation example

- To stop programmed playback:
  PROGRAM (Program memory)
- To stop playback and clear the program:
  OPEN/CLOSE
- To clear the program:
  STOP → STOP
  (Stop playback) (Program clear)

NOTE:
Pressing the PROGRAM CLEAR key ⑨ during programmed playback will clear the last program step. Playback, however, will continue.
With a program already stored, when a music window is entered, the stored program will be cleared.

TO CHANGE TO PROGRAMMED PLAYBACK DURING PLAYBACK (ADD-ON PROGRAM)

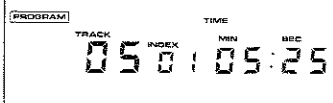
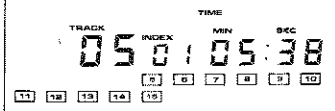
Pressing the PROGRAM MEMORY key ⑦ during normal playback and entering a program will automatically start the program after the currently-playing track ends. Also, if the PLAY key ⑤ is pressed during playback, the program will start immediately.

NOTE:
If memory already contains a program, the newly-entered program will be added to it.

Operation example

During normal playback of track 5, tracks 3 and 8 are programmed, and programmed play is started.

● Program entry

Step	Key operations	Indicator display
(Program mode)	PROGRAM	
01	3	
After 5 seconds.		
02	8	

● Programmed playback start

When playback of the fifth track ends, programmed playback will start automatically. To start programmed playback immediately, press the PLAY key ⑤.

PROGRAMMING TRACKS WHICH CAN BE PLAYED BACK WITHIN A DESIRED TIME (AUTO PROGRAM EDITING)

When the desired playing time is specified, playback will begin from track 1 and continue until the end of the specified playing time. This is convenient for tape recordings.

To program playback from track 1.

1. During stop mode, press the AUTO PGM EDIT key ㉒.

2. Use the TRACK NUMBER keys ⑥ to specify the desired playing time (in minutes).

Starting from track 1, tracks which can be played during the specified time will be played automatically.

[For additional programming.]

3. Press the AUTO PGM EDIT key ㉒.

4. Use the TRACK NUMBER keys ⑥ to specify the desired playing time (in minutes).

After programming a pause, specify the playing time beginning with the track following the tracks programmed in steps 1 and 2.

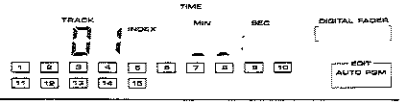
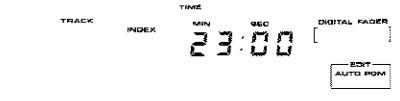
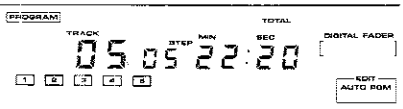
The last programmed track and the total playing time will be displayed.

NOTE:

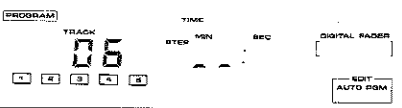
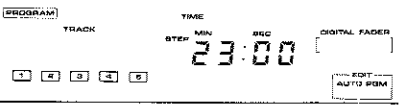
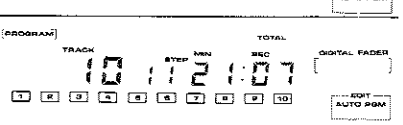
- *24 or more program steps cannot be programmed.*
- *If all the tracks on the disc are programmed, the program will continue, then end after the last track.*
- *For discs containing more than 31 tracks, proper programming may not be possible.*
- *If the specified playing time does not even allow playback of one track, programming will not be possible.*
- *When specifying 10 or more seconds, first press the "10" key, then press the 1 to 9 keys. (1 to 9).*

Operation example

A disc containing ten tracks with a playing time of 43 minutes and 27 seconds is to be recorded onto a C46 cassette tape (23 minutes playing time each side). First, a playing time of 23 minutes is specified for recording tracks starting with track 1. Then another 23 minutes is specified for recording the remaining tracks.

Key operations	Indicator display
AUTO PGM EDIT	
2 3	
After 0.8 seconds	

Tracks 1 to 5 are programmed to play for 22 minutes and 20 seconds.

AUTO PGM EDIT	
2 3	
After 0.8 seconds	

After entering a pause, tracks 6 to 10 are programmed to play for 21 minutes and 7 seconds.

Cancelling the auto program mode

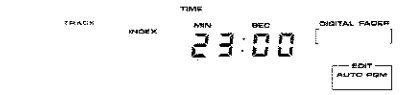
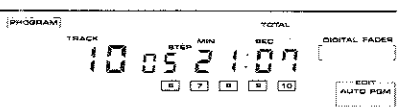
If the playing time has not been specified, press the AUTO PGM EDIT key ㉒ or the STOP key ⑬.
If the playing time has already been specified, press the STOP key ⑬.

Starting the program with a desired track

1. **During the stop mode, press the AUTO PGM EDIT key ㉒.**
2. **Specify the track number with the TRACK SEARCH keys ⑫.**
3. **Repeat steps 2 to 4 in "To program playback from track 1."**

Operation example

Starting with track 6, a playing time of 23 minutes is to be programmed.

Key operations	Indicator display
AUTO PGM EDIT	
Press ▶▶| 5 times	
2 3	
After 0.8 seconds	

Tracks 6 to 10 are programmed to play for 21 minutes and 7 seconds.

Playback operation

1. **Press the PLAY key ⑤.**

   After the tracks programmed the first time are played, the player will enter pause.

2. **Press the PLAY key ⑤ or the PAUSE key ⑭.**

   The tracks programmed the second time are played. Even after playback ends, the program is still retained in memory.

Operation example

This programs tracks 1 to 5 for the first time and tracks 6 to 10 for the second time.

- Playback start:

PLAY ..... Pause after playing tracks 1 to 5.

PLAY or PAUSE ..... Playback of tracks 6 to 10.

Stopping playback, cancelling a program, and program clear

It is the same as for normal programmed playback.

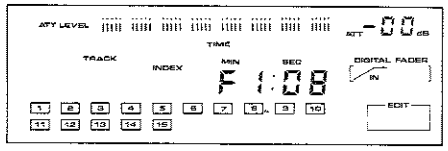
SETTING THE LENGTH OF FADE-IN AND FADE-OUT (VARIABLE FADE)

The fade-in and fade-out length can be individually set between 0 to 9 seconds for music window and time fade editing playback or when using the digital fader.
After the fade length is set, all fade-in and fade-out operations will operate at that set length.

1. During stop mode, press the AUTO FADER IN or AUTO FADER OUT key ⑱, ⑲.

2. Use the TRACK NUMBER keys ⑥ to specify the length (0 to 9 seconds).

The "10" key can be used to input "0."
- When the fade-in length is specified: FI displays.
- When the fade-out length is specified: FO displays.



IN will light.

(The fade-in operation time is set to 8 seconds.)

NOTE:
- *When the power is turned on, the time will be set to 5 seconds.*
- *If a music window has been programmed, the length cannot be set in the time fade editing mode.*
- *To specify "0," press the "10" key.*

INSERTING FADE-IN AND FADE-OUT SOUND AT THE DESIRED POINT (DIGITAL FADE-IN/FADE-OUT)

Inserting a fade-out

1. During playback or programmed playback, press the AUTO FADER OUT key ⑲.

Fade-out will begin. When it ends, the player will enter pause mode.

Inserting a fade-in

1. During playback pause, press the AUTO FADER IN key ⑱.

The pause will be cancelled and playback will start with fade-in sound.
The operation is the same during a pause of programmed playback.

NOTE:
- *If a search operation (track search, manual search, index search) is performed during fade-in or fade-out, the fade-in or fade-out will be interrupted and the player will enter playback mode.*
  Also, when playback or programmed playback ends, fade-in and fade-out will be cancelled.
- *Pressing the PAUSE key ⑭ during fade-in or fade-out will pause the player. Press the PAUSE key ⑭ again or the PLAY key ⑤ to resume the fade-in or fade-out.*
- *Fade-in and fade-out cannot be performed during music window playback and time fade playback.*
- *Pressing the AUTO FADER IN or AUTO FADER OUT key ⑱, ⑲ during fade-in or fade-out, will reverse the fade-in or fade-out operation.*

ENDING PLAYBACK WITH A FADE-OUT AFTER A SPECIFIC TIME PERIOD (TIME FADE EDITING)

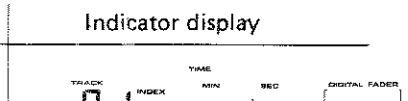
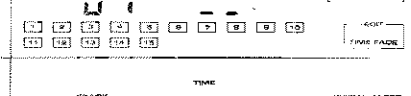
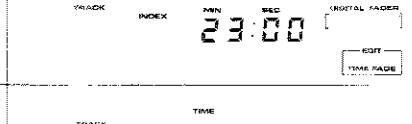
After the time period is specified, playback will continue for that time period and end automatically with a fade-out. The player then enters pause mode. This is convenient for tape recordings.

To have playback start from track 1 and continue for a specified time period

1. **During the stop mode, press the TIME FADE EDIT key ㉓.**
2. **Use the TRACK NUMBER keys ⑥ to specify the time period (in minutes).**
   When the time period is specified, playback will be programmed to play for the specified time period starting with track 1 and to end with a fade-out.

Operation example

A compact disc containing ten tracks with a playing time of 43 minutes and 27 seconds is to be recorded onto a C46 cassette tape (23 minutes each side). A playing time of 23 minutes starting with track 1 is specified. Playback is to end with a fade-out.

Key operation	Indicator display
TIME FADE EDIT	
2 3	
After 0.8 seconds	

Tracks 1 to 5 are played. After 2 minutes and 40 seconds of track 5, playback ends with a fade-out.

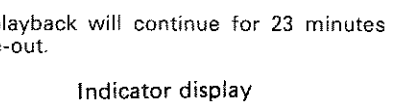
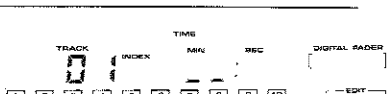
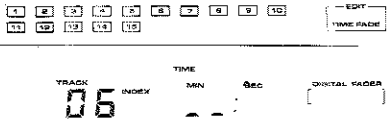
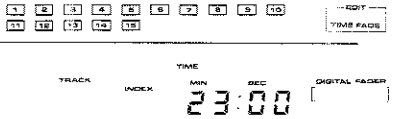
Playback starting with the desired track for a specific time period

1. **During stop mode, press the TIME FADE EDIT key ㉓.**
2. **Use the TRACK SEARCH keys ⑫ to specify the track number.**
3. **Use the TRACK NUMBER keys ⑥ to specify the time period (in minutes).**

NOTE:
If more than 30 tracks can be played within the specified time period, the program cannot be executed.

Operation example

Starting with track 6, playback will continue for 23 minutes until it ends with a fade-out.

Key operation	Indicator display
TIME FADE EDIT	
Press ▶▶| 5 times	
2 3	
After 0.8 seconds	

Tracks 6 to 10 will be played, and after 2 minutes and 20 seconds of track 10, playback will end with a fade-out.

Programmed playback within a specified time period

When a program has been entered, playback will continue in the programmed sequence within the specified time period and end with a fade-out.

1. During programmed playback stop mode, press the TIME FADE EDIT key ㉓.

2. The following step is identical to step 2 in "To have start playback from track 1 and continue for a specified time period."

Operation example

With tracks 2, 3, 5, 7, 8, 10, and 12 programmed, playback will end with a fade-out after 23 minutes of play.

Key operation	Indicator display
TIME FADE EDIT	
2 3	
After 0.8 seconds	

Playback continues until track 10 (program step 6). After 1 minute and 21 seconds of track 10, playback ends with a fade-out.

NOTE:

- *If the specified time period is longer than the disc's playing time, time fade editing cannot be done. In the same way, if the specified time period is longer than the playing time of the programmed playback, time fade editing cannot be done. Also, if a pause has been entered in the program, playback will continue without the pause.*
- *If a music window(s) has been programmed, the TIME FADE EDIT key ㉓ will not function during playback or pause.*
- *In time fade editing mode, if the fade-out starting point is surpassed while performing manual search during playback, fade-out will start from that moment.*
- *During time fade playback, performing direct track selection will cancel the time fade editing mode.*
- *During programmed time fade playback, additional programming cannot be done.*

Playback operation

1. Press the PLAY key ⑤.

Fade-out will begin at the end of the specified time period, then the player will enter the pause mode.

Operation example

- **Playback start**

PLAY ... **Playback starts with track 1 and ends with a fade-out after 23 minutes. The player then enters the pause mode.**

Cancelling the time fade editing mode

- If the time period has not been specified, press the TIME FADE EDIT key ㉓ or the STOP key ⑬. If the time period has already been specified, press the PROGRAM CLEAR key ⑨.
- For programmed time fade editing, pressing the PROGRAM CLEAR key ⑨ will cancel time fade editing. Pressing it each time thereafter will cancel the program starting with the last programmed track.

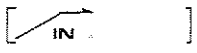
WHEN JOINING ONLY THE DESIRED PARTS OF THE DISC FOR SMOOTH AND CONTINUOUS PLAYBACK (Music window program)

The desired sections (music windows) of a disc can be specified and played in sequence. The sections are pieced together smoothly with fade-in and fade-out sound. This is convenient for background music.

Specify the starting and ending points of the music window

1. During normal playback, press the MUSIC WINDOW key ⑩ at the desired starting point of the music window.

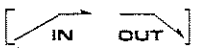
The MUSIC WINDOW display will light to indicate that the starting point has been entered.
Also, the time displays the time elapsed since the starting point.



MUSIC WINDOW

2. To specify the ending point of the window, press the MUSIC WINDOW key ⑩ again.

The ending point will be entered. This display will go off after 5 seconds and normal playback will resume.



MUSIC WINDOW

3. Repeat steps 1 and 2.

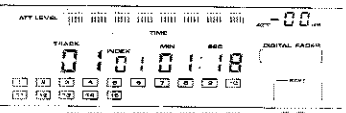
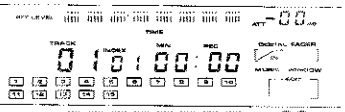
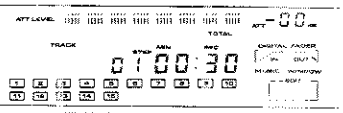
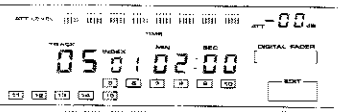
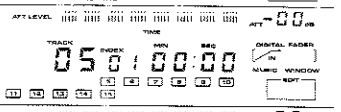
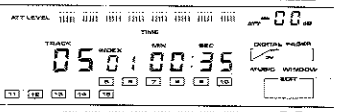
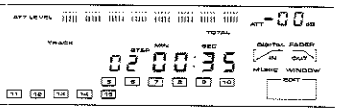
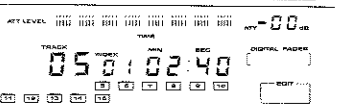
Repeat steps 1 and 2 to enter additional music windows. Up to 10 windows can be entered.

NOTE:

- *A music window cannot be entered if the ending point is entered at a location before the starting point location.*
- *Other than during normal playback, a music window cannot be entered.*
- *If the playback time of the entered window is shorter than the total fade in and fade out times, the fade in and fade out will occur within half the playing time of the window.*
- *If the [◄◄] key ⑪ is used to reverse to a point before the starting point, "00" will be displayed.*

Operation example

During normal playback, this sample program will playback 30 seconds of the first track from 1 minute and 18 seconds into the track. And the fifth track will be played for 35 seconds from 2 minutes into the track.

Key operation	Indicator display
►►	
MUSIC WINDOW	
►►	
MUSIC WINDOW	
After 5 seconds	
Press ►►| 4 times and ►►	
MUSIC WINDOW	
►►	
MUSIC WINDOW	
After 5 seconds	

- Press the TIME key ⑯ for the TOTAL display to show the total playing time of the music windows entered.

Cancelling the music window program

During music window program input, press the PROGRAM CLEAR key ⑨ to clear one program step at a time.
During stop mode, press the STOP key ⑬ to clear the entire music window program.

Playback Operation

1 Press the PLAY key ⑤ to start play.

2 Play ends.

There will be a fade-out right before the ending point of the last programmed window. At the ending point, the player will enter the stop mode. (All operations stop, and the disc's starting track number is displayed.)

When the ALL TRACK REPEAT mode is ON.

When playback of the last programmed window ends, playback will repeat from the starting point of the first programmed window. Playback will keep repeating until the repeat mode is cancelled or the STOP key ⑬ is pressed.

Operation example

● Playback Start:

PLAY ---------

Fade-in Start	Playback	Fade-out End
Track 1, 1 min. 18 sec.	⟶	Track 1, 1 min. 48 sec.
Track 5, 2 min. 00 sec.	⟶	Track 5, 2 min. 35 sec.

Cancelling music window program playback

Pressing the MUSIC WINDOW key ⑩ during music window playback will turn off the MUSIC WINDOW indicator and stop the music window playback. However, playback will continue. In this case, the next step can be added to the stored program.
To start music window playback again, press the PLAY key ⑤.

CAUTIONS REGARDING USE OF REMOTE CONTROL UNIT

If use is made of the supplied remote control unit, remote operation is possible.
To use the remote control unit, aim at the remote sensor.
The remote control unit can operate over a range of approximately 23 feet (7 meters), within angles of 30 degrees left and right.

- Even when the remote control unit is operated within the specified operating range, operation may not be successful if there are obstacles in the way, or if the angle is too great.
- Using the equipment near a device which emits infrared rays, or using another remote control unit which emits infrared rays, may result in misoperation. Conversely, use of the remote control unit when another device controlled by means of infrared rays is being used, may cause misoperation of that device.
- The life of the batteries used in the remote control unit will vary greatly depending on operating conditions, however when they begin to run down, the operating range will be reduced. When commands fail to be accepted when keys on the remote control unit are pressed, or when the operating range is greatly reduced, please replace the batteries.

TIMER START

With a disc set on the disc tray, and the power turned on, playback will begin from track 1 of the disc.
If an audio timer is used, playback can be set to begin at the desired time.

NOTE:

- *If an audio timer is used, the player's POWER switch ① must be left in the ON position.*
- *After power is turned on to the player and the player's operation keys are used before it starts to play, the timer start will not operate.*

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used.
If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Symptom	Probable cause	Remedy
Disc tray is not expelled when OPEN/CLOSE key ③ is pressed.	• Power plug is disconnected from outlet. • POWER switch ① is OFF.	• Connect plug to stereo amplifier or wall outlet. • Press POWER switch ① ON.
When playback is started, it stops immediately. **Pauses or stops playback**	• Disc is loaded upside down. • **Contaminated disc, etc.**	• Load the disc correctly with the label side UP. • Clean disc. • **Press the PLAY key ⑤ or PAUSE key ⑭.**
No sound.	• Output cords are connected incorrectly or loosely. • Incorrect operation of stereo amplifier. • The output selector is set incorrectly for the amplifier being used. • Player is in pause mode.	• Connect properly. • Check the settings of stereo amplifier switches and sound volume controls. • Set correctly the output selector. • Press the PLAY key ⑤.
Sound is distorted, noise is output.	• Incorrect connections. • Pin plugs or amplifier input terminals are dirty. • Interference is being picked up from a TV set.	• Connect to amplifier's CD or AUX terminals etc. Do not connect to PHONO input terminals. • Clean away dirt. • Switch OFF TV set, or move player away from TV set.
With certain discs, loud noise is produced, or play stops.	• Disc is badly scratched or warped. • Disc is extremely dirty.	• Replace the disc. • Clean disc.
Cannot operate player with remote control unit.	• Batteries have expired. • Remote control unit is too far away from player, or angle is wrong. • There is an obstacle between remote control unit and player.	• Replace batteries. • The operating range of the remote control unit, is up to about 7 m from, and within angles of 30 degrees left and right of the sensor window on the player. • Operate the remote control unit from a different position, or remove the obstacle.

SPECIFICATIONS

1. General

Type ..... Compact disc digital audio system
Usable discs ..... Compact Disc
Signal format ..... Sampling frequency: 44.1 kHz
Quantized bit number: 16 bit linear
Power requirements
European models ..... AC 220 V, 50/60 Hz
U.S., Canadian models ..... AC 120 V, 60 Hz
Power consumption ..... 11 W
Operating temperature ..... +5°C - +35°C
(+41°F - +95°F)
Weight ..... 6.0 kg (13 lb, 4 oz)
External dimensions .....
420(W) x 315(D) x 123(H) mm
16-9/16(W) x 12-13/32(D) x 4-27/32(H) in

2. Audio section

Frequency response ..... 2 Hz - 20 kHz (±0.5 dB)(EIAJ)
Signal-to-noise ratio ..... 106 dB or more (EIAJ)
Dynamic range ..... 96 dB or more (EIAJ)
Channel separation ..... 100 dB or more (EIAJ)
Total harmonic distortion ..... 0.003 or less (EIAJ)
Output voltage ..... 2.2 V ± 0.5 V (EIAJ)
Wow and flutter ..... Limit of measurement
(± 0.001% W.PEAK) or less (EIAJ)
Number of channels ..... 2 channels (stereo)
Digital output ..... Coaxial output: 0.5 Vp-p (75Ω)
Optical output: –15 dBm to –20 dBm
(wavelength 660 nm)

3. Output terminal

Optical digital output terminal
Coaxial digital output terminal
Subcode output terminal (U.S. model only)
Audio line output terminal
Headphone jack (with volume control)

4. Functions

- Play
- Pause
- Stop
- Manual search
- Track search
- Index search
- Direct selection
- Single track repeat
- All track repeat
- Programmed repeat
- Random play repeat
- Programmed random play repeat
- Music Window repeat
- Programmed playback (up to 24 tracks)
- Pause program
- Program check
- Program correction
- Program clear
- Add-on program
- Auto program editing
- Time fade editing (Fade time variation)
- Music Window (Fade time variation)
- One touch fade (Fade time variation)
- Digital level control (remote control)
- Random play
- Programmed random play
- Auto space
- Timer start

5. Accessories

- Remote control unit 1
- Size AAA/R03 dry cell batteries 2
- Output cable 1
- Operating instructions 1

NOTE:

Specifications and design subject to possible modifications without notice, due to improvement.

PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan
PIONEER ELECTRONICS [USA] INC. 2265 East 220th Street Long Beach, California 90810 U.S.A.
P.O. BOX 1720 Long Beach, California 90801-1720 U.S.A.
PIONEER ELECTRONICS OF CANADA, INC. 505 Cochrane Drive, Markham, Ontario L3R 8E3 Canada
PIONEER ELECTRONIC [EUROPE] N.V. Keetberglaan 1, 2740 Beveren, Belgium TEL: 03/775·28·08
PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911

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